

# BOLIX KD PANEL

## Dispersion Adhesive for Decorative Panels

### PRODUCT DESCRIPTION:

- Excellent flexibility
- Provides high adhesion of decorative panels and mouldings to the surface
- Easy to apply
- Ready to use

### USE:

BOLIX KD PANEL is a ready mixed dispersion adhesive for bonding decorative panels BOLIX WOOD EFFECT PANEL and BOLIX RIBBED EFFECT PANEL to exterior walls of new and existing buildings as well as to interior surfaces.

The product can be applied to:

- base coats of External Thermal Insulation and Composite Systems (ETICS) with EPS boards,
- mineral substrates such as: concrete, cement or cement-lime renders,
- fibre cement cladding and cement-bonded particleboards, which are firmly fixed to the substrate or frame,
- plasterboards,
- gypsum plasters,

### SURFACE PREPARATION:

The current ETICS Instruction Manual IB/01 EPS must be followed when applying ETICS and the reinforced base in particular.

The surface must be structurally sound, stable, even, clean of surface contaminants such as dust, grease, bitumen and other barrier materials that may affect adhesion. Remove any loose or friable material, peeling or flaking paint or plaster. Prime porous surfaces (aerated concrete in particular) with the BOLIX N Primer. Level minor gaps and imperfections with a base coat for embedding glass fibre mesh such as BOLIX U or the cementitious joint compound BOLIX SPN (concrete substrate). Level major gaps and imperfections with the mortar BOLIX W and when set, smooth out the entire surface with the above base coat or joint compound.

When attaching decorative panels to gypsum plaster or plasterboards, prime the surface with the primer BOLIX Ultragrunt and when it has dried, apply BOLIX OP.

Prior to fixing decorative panels to other surfaces (including base coat of thermal insulation systems), prime with BOLIX OP.

### PRODUCT PREPARATION:

A ready-mixed product. Prior to application, stir the full packaging thoroughly with a low-speed mixing drill until a uniform mixture. Do not over-mix as this may introduce and entrap air into the adhesive.

*NOTICE! In the summer, it is possible to adjust consistency by thinning the adhesive mortar with a small amount of water - 300 ml/30 kg of the slurry. Thin each container with the same amount of water. Do not admix, except for water.*

### APPLICATION:

Spread the ready mix adhesive across the surface and work well into the surface using a 6x6 mm notched trowel. Finally, work perpendicular to the direction the panels are attached. Place elements at a ca. 5 mm distance. Pressing the panel firmly into the mortar, slide and push it into place to butt joint with the previously installed elements. Remove excess mortar using a brush or a putty knife. Apply firm, even pressure

to the entire panel, once it is in place, using a wallpaper roller to provide good contact. Make sure that there is 100% coverage on the back of the panel and that all air voids are removed. Clean off the excess adhesive with a damp sponge before it dries out. Time between adhesive application and panel installation must be less than 10 min.

Additional recommendations:

#### BOLIX WOOD EFFECT PANEL:

Install the panels in a running bond pattern, staggering vertical joints in successive courses, working from the top down or vice versa. The elements must be butted together.

#### BOLIX RIBBED EFFECT PANEL:

Install the panels from right to left or vice versa, making sure that the grooves are oriented vertically.

### LIMITATIONS AND RECOMMENDATIONS:

- Make sure that the surface is even and well prepared.
- Prior to priming, allow fresh cement and lime-cement plasters to cure for minimum 3-4 weeks and gypsum plasters for minimum 2 weeks.
- Do not apply to areas subject to prolonged water exposure (and to vertical surfaces in particular), accumulated snow and areas not damp-proofed against capillary action.
- Before decorative effect application, cover or mask all adjacent on which the panels are not to be installed.
- Allow fresh cement and lime-cement renders to cure for minimum 28 days.
- Plan the surface area taking into consideration weather conditions, surface type and workforce.
- During application operation and immediately afterwards, when the adhesive is drying, protect from direct sunlight exposure, precipitation and wind. Use scaffolding meshes.
- Low temperature, increased humidity and improper air circulation extend the provided drying time of the adhesive.
- Make sure that skinning of the adhesive has not started before attaching the panels, as this may impair the adhesion and lead to delamination/debonding of the panel. If the skinning occurred, remove the adhesive and apply again.
- Do not install panels using the dab method.

### PRECAUTIONS:

Protect eyes and skin. In case of eye contact, flush eyes with plenty of water and seek medical advice.

### TOOLS:

- Agitator or low-speed drill (400÷500 rpm) with mixing paddle
- 6 x 6 mm notched trowel
- Putty knife
- Sponge
- Wallpaper roller
- Brush

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### TECHNICAL DATA:

The following technical data are for the temperature of +23 (±2)°C and relative air humidity of 50 (±5)%. Under other conditions the technical data may vary.

#### Ambient and surface temperature at application and setting:

from +5°C to +25°C

#### Relative humidity at application and setting:

up to 80%

#### Density:

Approx. 1.8 g/cm<sup>3</sup>

#### Colour:

White

#### Adhesive thickness:

approx. 2mm

#### Coefficient of heat conductivity $\lambda$ :

≤ 0.67 W/(m\*K)

#### Diffusion resistance factor $\mu$ :

≤ 280

#### Drying and setting time after decorative panel installation:

min. 24 h

#### Packaging:

30 litre bucket

#### No. of containers per pallet and net weight:

24 / ca. 720 kg

#### Shelf life:

12 months from the date of production provided on the packaging

### NOMINAL COVERAGE:

Average coverage when applied to even surface is **approx. 2.8 kg/m<sup>2</sup>**

Coverage will vary with the surface levelling and thickness of the adhesive. To determine precise coverage perform a test patch on the substrate.

### STORAGE:

Store in intact containers in temp. between +5°C and +25°C. Protect from direct sunlight and frost. Store away from the reach of children.

### COMPOSITION:

Dispersion of organic polymers, water, mineral fillers, pigments, additives and preservatives.

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